L&G Engineering
Transportation Consultants

June 14, 2018

The Honorable Joseph Palacios
Commissioner, Hidalgo County Pct. No. 4
1051 N. Doolittle
Edinburg, Texas 78539

RE: FM 1925 Project
Limits: from Wallace Road to 10th Street
Contract No. C-16-048-02-03

- **Supplemental No. 1 to the Professional Agreement**
- **Supplemental No. 1 to Work Authorization No. 1**

Dear Commissioner Palacios:

As discussed and requested by TxDOT, the limits for the above mentioned project will be extended to begin at Wallace Road east to 10th Street as outlined in the attached location map. The original approved limits for this project were from Ware Road (FM 2220) to 10th Street.

Therefore, attached for your review and consideration is Supplemental No. 1 to the Agreement and Supplemental No. 1 to Work Authorization No. 1 in the amount of $ 501,750.00. These Supplemental(s) are required for the work associated with extending the limits for the FM 1925 project to begin at Wallace Road. The following is the funding breakdown for L&G Engineering and our Sub-Consultants proposed fees associated with this Supplemental No. 1 to Work Authorization No. 1.

• L&G Engineering *(PRIME)*	$	498,650.00
• AmaTerra (*SUB-CONSULTANT*)	$	3,100.00
TOTAL	**$**	**501,750.00**

Attached you will find the following:

1.) Two signed originals of Supplemental No. 1 to the Agreement for Professional Services with the following attachments:
   - Project Location Map

2.) Two signed originals of Supplemental No. 1 to Work Authorization No. 1 with the following attachments:
   - Project Location Map
   - Exhibit A "Services to be provided by the Owner"
   - Exhibit B "Services to be provided by the Engineer"
   - Exhibit C "Project Work Schedule"
   - Exhibit D-1 "Estimated Project Fee Schedule and Man-hour Breakdown"

Should you have any questions regarding this submittal, do not hesitate to call me at (956) 585-1909.

Sincerely,
L& G ENGINEERING

Robert Macheska, P.E.
Project Manager

Attachments

2100 W. Expressway 83 • Mercedes, TX 78570 • Office (956) 565-9813 • Fax (956) 565-9018
900 S. Stewart Rd., Ste. 10 • Mission, TX 78572 • Office (956) 585-1909 • Fax (956) 585-1927

SUPPLEMENTAL PROPOSAL
CULTURAL RESOURCE INVESTIGATIONS
FM 1925: FROM FM 2220 TO WALLACE ROAD
HIDALGO COUNTY, TEXAS

AmaTerra is pleased to submit this supplemental scope and fee proposal to expand the cultural resources investigations for the FM 1925 project from the previous limits extending from FM 2220 to FM 2061. The new project limits would extend from FM 2061 to Wallace Road, lengthening the existing 3.4 mile long project by approximately one mile. The scope of services for this work would essentially remain unchanged, apart from expanded project limits.

Under Task 2, AmaTerra will inventory all buildings greater than 45 years in age from 10th Street to Wallace Road within an Area of Potential Effects (APE) that includes all parcels that are wholly or partially within the proposed new ROW to be acquired. AmaTerra shall prepare a report with sufficient detail and clarity to provide THC with the basis for making determinations of National Register of Historic Places (NRHP) eligibility or shall have sufficient detail and clarity to make recommendations concerning the scope of the intensive survey. The report shall conform to the TxDOT *Documentation Standard for Reconnaissance Survey Report for ADA Projects* (October 2014 version).

Under Task 3, AmaTerra will extend the archeological survey of the existing and proposed ROW from 10th Street to Wallace Road. The results of the survey will be integrated into a professional report documenting the results of the fieldwork. The draft report will be presented in electronic format to L&G for review and comment and upon approval will be submitted in hard copy for submission to TxDOT. Upon receipt of review comments, AmaTerra will prepare the final report and distribute these in compliance with the terms of the permit.

ASSUMPTIONS AND CONDITIONS

1. AmaTerra assumes that this work would be done concurrent to the environmental studies and documentation efforts along FM 1925 from FM 2220 to FM 2061.
2. Backhoe trenching will not be included in the additional work.

COMPENSATION

To complete this work, AmaTerra is requesting an additional $3,100.00 to cover the costs of expanded field survey and reporting efforts under Tasks 2 and 3. The expanded project limits will have no effect on Task 1 of the previous fee estimate. The additional funds would be applied according to the schedule of values below.

Schedule of Values		
FM 1925: FM 2220 to Wallace Road		
TASK		
2: Historic Resources Research Design, Reconnaissance Survey and Report	$	1,250.00
3: Archeological Survey and Report	$	1,850.00
TOTAL	**$**	**3,100.00**

EXHIBIT "F"

Supplemental Agreement Form

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

SUPPLEMENTAL AGREEMENT NO. 1

TO AGREEMENT FOR PROFESSIONAL SERVICES
C-16-048-02-03

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, acting herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**", and L&G Consulting Engineers, Inc. d/b/a **L&G Engineering**, Professional Engineers of, **Mercedes, Texas**, hereinafter called "**Engineer**".

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the **Agreement** on the 3rd day of February, 2016 concerning professional engineering services required for the FM 1925 project from 1,500 ft. West of FM 2220 (Ware Road) to 10th Street for Hidalgo County Precinct No. 4 hereinafter referred to as the project; and,

WHEREAS, it has become necessary to amend the Agreement for Professional Services in order to extend the limits of the FM 1925 project beginning at Wallace Road as requested by the Texas Department of Transportation.

A. AGREEMENT

NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

1) *Revise the project limits as requested by the Texas Department of Transportation to extend the limits from Wallace Road east to 10th Street, as identified on the attached Location Map.*

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2018.

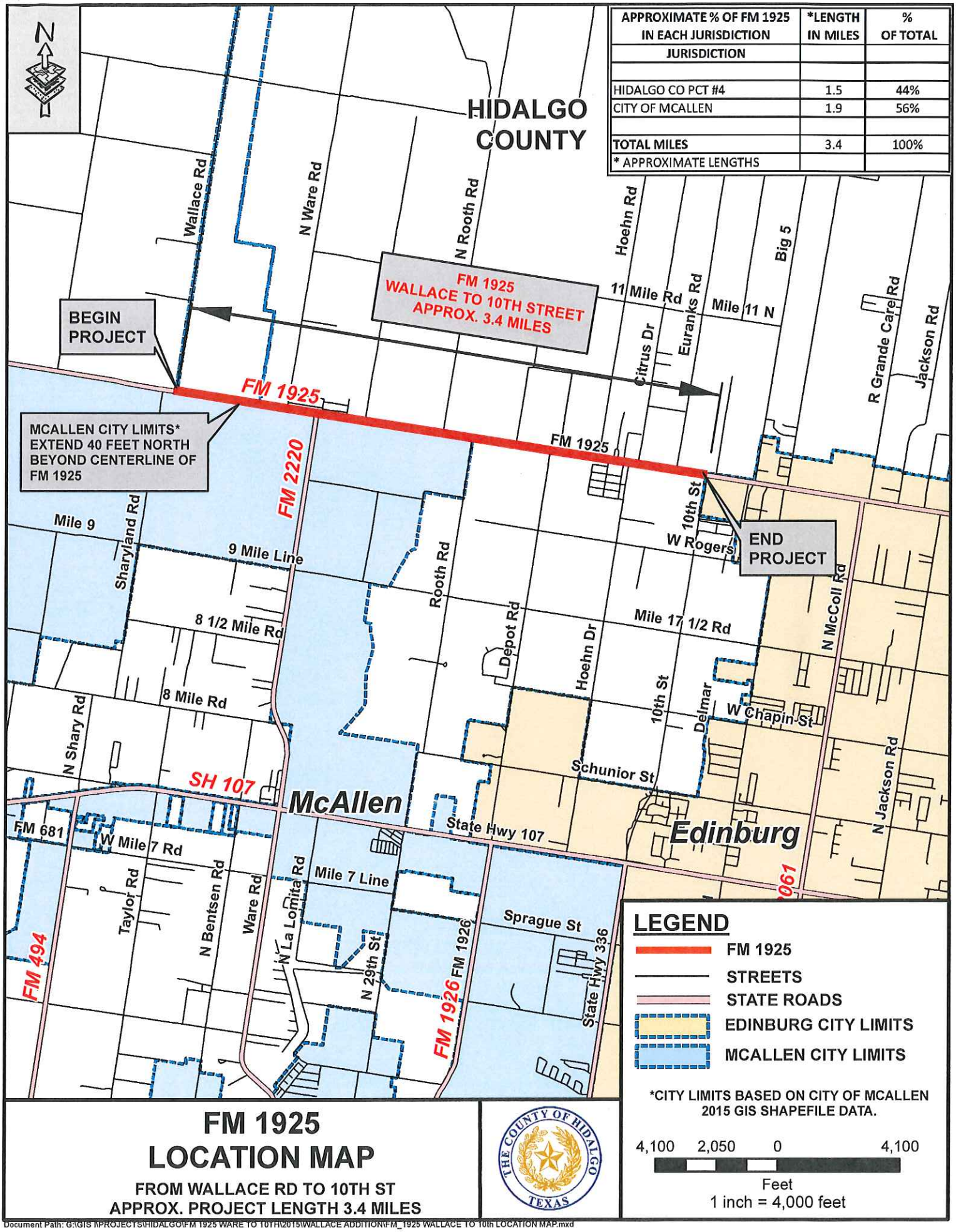
THE ENGINEER:
ENGINEER

BY: _____

THE OWNER:
HIDALGO COUNTY

BY: _____
Ramon Garcia, County Judge

LOCATION MAP



APPROXIMATE % OF FM 1925 IN EACH JURISDICTION	*LENGTH IN MILES	% OF TOTAL
JURISDICTION		
HIDALGO CO PCT #4	1.5	44%
CITY OF MCALLEN	1.9	56%
TOTAL MILES	3.4	100%
* APPROXIMATE LENGTHS		

LEGEND

- FM 1925
- STREETS
- STATE ROADS
- EDINBURG CITY LIMITS
- MCALLEN CITY LIMITS

*CITY LIMITS BASED ON CITY OF MCALLEN 2015 GIS SHAPEFILE DATA.

4,100 2,050 0 4,100

Feet

1 inch = 4,000 feet

FM 1925 LOCATION MAP

FROM WALLACE RD TO 10TH ST

APPROX. PROJECT LENGTH 3.4 MILES

THE COUNTY OF HIDALGO TEXAS

Document Path: G:\GIS I\PROJECTS\HIDALGO\FM 1925 WARE TO 10TH\2015\WALLACE ADDITION\FM_1925 WALLACE TO 10th LOCATION MAP.mxd

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2018-368945

Date Filed:
06/15/2018

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

L&G Consulting Engineers, Inc.
Mercedes , TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Hidalgo County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-16-048-02-03
Supplemental No. 1 to Agreement to extend limits for the FM 1925 Project to begin at Wallace Road

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Sandoval, Armando	Mercedes , TX United States		X
Garza , Jacinto	Mercedes , TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 UNSWORN DECLARATION

My name is Jacinto Garza, and my date of birth is 10/23/61.

My address is 2100 W. Expressway 83, Mercedes, TX, 78570, Hidalgo
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of TEXAS, on the 15th day of June (month), 2018 (year).

Signature of authorized agent of contracting business entity
(Declarant)

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2018-368945

Date Filed:
06/15/2018

Date Acknowledged:
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1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

L&G Consulting Engineers, Inc.
Mercedes , TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Hidalgo County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-16-048-02-03
Supplemental No. 1 to Agreement to extend limits for the FM 1925 Project to begin at Wallace Road

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Sandoval, Armando	Mercedes , TX United States		X
Garza , Jacinto	Mercedes , TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 UNSWORN DECLARATION

My name is _____, and my date of birth is _____.

My address is _____, _____, _____, _____, _____.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in _____County, State of _____, on the _____day of _____, 20_____.
(month) (year)

_____
Signature of authorized agent of contracting business entity
(Declarant)

EXHIBIT "F"

Supplemental Agreement Form

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

SUPPLEMENTAL AGREEMENT NO. 1
TO WORK AUTHORIZATION NO. 1
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-16-048-02-03

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, hereinafter called the "**Owner**", and **L&G ENGINEERING**, professional engineers of Mercedes, Texas, hereinafter called the "**Engineer**".

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the Main Contract Agreement on the 3rd day of February 2016, concerning professional engineering services for the **"FM 1925** project from 1,500 ft. West of FM 2220 (Ware Road) to 10th Street project hereinafter referred to as the "**Project**"; and,

WHEREAS, it has become necessary to amend *Work Authorization No. 1, Part 1 of the Agreement – Scope of Work* in order to **extend the limits of the FM 1925 project from Wallace Road to 10th Street.** The following Exhibits are hereby modified to reflect the revised limits of this project:

- *Exhibit "A" – Scope of Services to be provided by the County*
- *Exhibit "B" – Scope of Services to be provided by the Engineer*

WHEREAS, it has become necessary to amend *Work Authorization No. 1, Part 5 of the Agreement – Period of Service* in order to amend the *Exhibit "C" – Work Schedule* to reflect the revised timeline for the FM 1925 project; and,

WHEREAS, it has become necessary to amend *Work Authorization No. 1, Part 2 of the Agreement – Estimated Cost* in order to amend *Exhibit "D-1" – Estimated Man-Hour Breakdown* to reflect the revised cost for the extended limits. This Supplemental will increase the original amount of Work Authorization No. 1 from **$681,350.00** to **$1,183,100.00**. ***Therefore, the amount of this Supplemental No. 1 is $501,750.00.***

A. AGREEMENT

NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

I. Sections of the Agreement, **EXHIBIT "A"** – SCOPE OF SERVICES TO BE PROVIDED BY THE COUNTY, **EXHIBIT "B"** – SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER, **EXHIBIT "C"** – WORK SCHEDULE and **EXHIBIT "D-1"** – ESTIMATED MAN-HOUR BREAKDOWN, are revised to reflect the above listed modifications of this Supplemental.

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2018.

THE ENGINEER:
ENGINEER

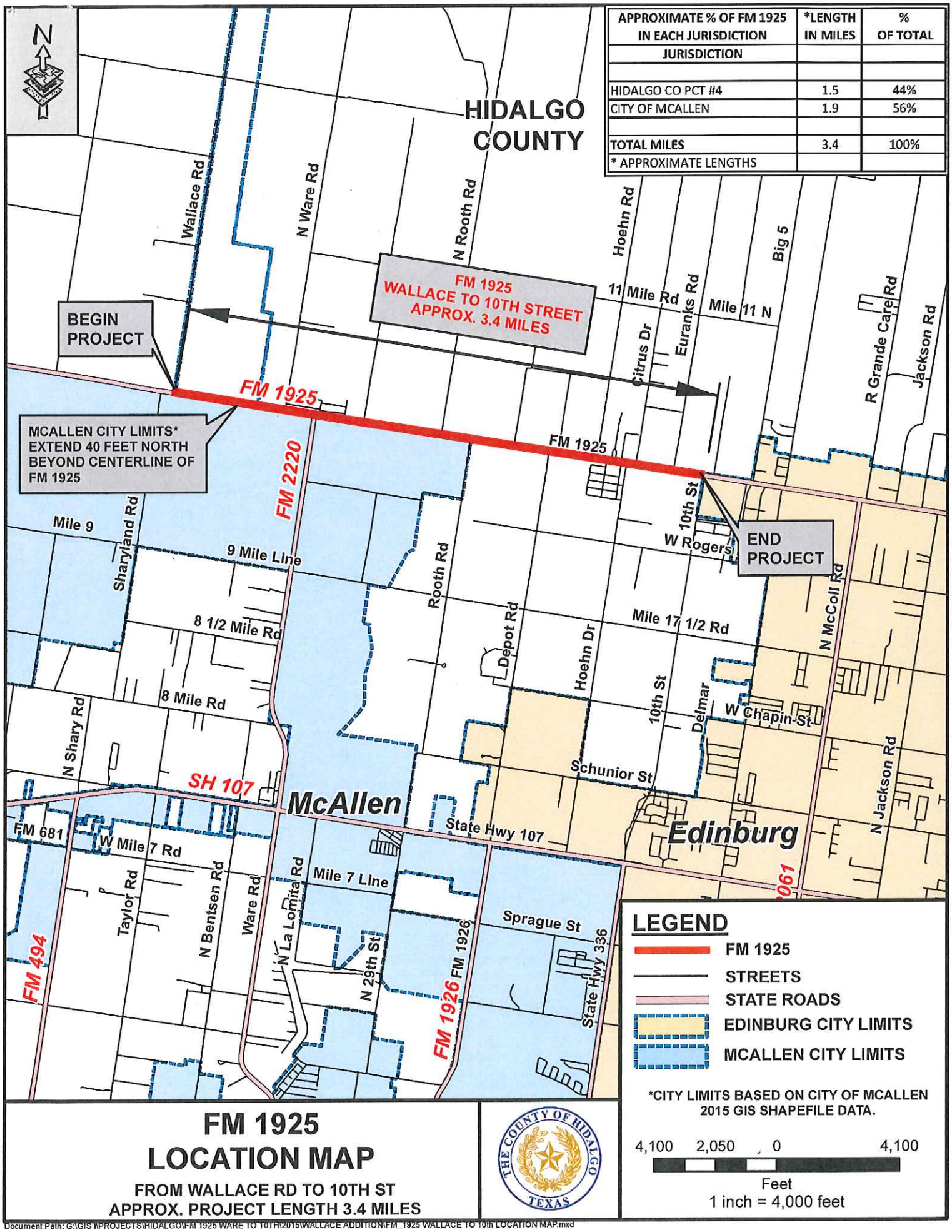
BY: _____
Jacinto Garza, P.E., President

THE OWNER:
HIDALGO COUNTY

BY: _____
Ramon Garcia, County Judge

LIST OF EXHIBITS:
LOCATION MAP
EXHIBIT A – Services to be provided by the County
EXHIBIT B – Services to be provided by the Engineer
EXHIBIT C – Work Schedule
EXHIBIT D-1 – Estimated Man-Hour Breakdown

LOCATION MAP



APPROXIMATE % OF FM 1925 IN EACH JURISDICTION	*LENGTH IN MILES	% OF TOTAL
JURISDICTION		
HIDALGO CO PCT #4	1.5	44%
CITY OF MCALLEN	1.9	56%
TOTAL MILES	3.4	100%
* APPROXIMATE LENGTHS		

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REVISED

EXHIBIT "A"
SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

The following provides an outline of the services to be provided by the **Owner** in the development of the FM 1925 project from the Wallace Road to 10th Street in Hidalgo County hereinafter denoted as the **Project**.

GENERAL:

The **Owner** will provide to the **Engineer** the following:

1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.

2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 5 of the Agreement.

3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the **Engineer** cannot easily obtain.

4) Provide any available relevant data the **Owner** may have on file concerning the **Project**.

5) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain the agreed upon work schedule prepared in accordance with Exhibit "C" attached to this Work Authorization.

6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

REVISED EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 1-PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: HIDALGO COUNTY

CONTROL:

PROJECT/DESCRIPTION: ENVIRONMENTAL, PUBLIC INVOLVEMENT, SCHEMATIC AND HYDROLOGIC DESIGN

LENGTH: 3.4 MILES

HIGHWAY: FM 1925

LIMITS: FROM WALLACE ROAD TO 10TH STREET

PROJECT CLASSIFICATION

(Place an "X" in only one Project Classification)

___ Surface Treatment
___ Overlay
___ Rehabilitation Existing Road (Scarify & Reshape)
___ Convert Non-Freeway to Freeway
___ Widen Freeway
_X_ Widen Non-Freeway
___ New Location Toll Freeway
___ New Location Non-Freeway
___ Interchange (New or Reconstruct)
___ Bridge Widening or Rehabilitation
___ Bridge Replacement
___ Upgrade to Standards - Freeway
___ Upgrade to Standards - Non-Freeway
___ Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

COUNTY shall mean the Hidalgo County.

CITY shall mean the City of _____.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 2 – FEASIBILITY STUDIES

(Function Code 102)

Services Provided By: ENGINEER	CITY/COUNTY	
YES	NO	Preliminary Design Values *The Engineer will work with the Owner to establish basic design concepts, project controls and general scope of Projects.*
YES	NO	Preliminary Route Locations on Uncontrolled Mapping *The Engineer will evaluate various alternatives (route locations, alignment shifts, geometry) for the Project.*
YES	NO	Uncontrolled Mapping (w/Contours & GIS Info) *The Engineer will investigate the existing routes and coordinate with the Owner on establishing the best-fit alignments and mapping proposed geometry for Projects. Preliminary Location Exhibit will be developed.*
YES	NO	Preliminary Traffic Evaluations & Trends *The Engineer will investigate existing traffic models and trends for the proposed Projects and adjacent roadways tying into the proposed Projects.*
YES	NO	Preliminary Hydrologic Map *The Engineer will develop a Hydrologic Map for the Projects. Hydrologic Maps will be based on LIDAR and GIS information.*
YES	NO	Preliminary ROW Requirements *The Engineer will research and identify affected property owners on the Projects utilizing the latest appraisal district file information from Hidalgo County Appraisal District and information from Carson Maps.*
YES	NO	Preliminary Cost Estimates *The Engineer will calculate preliminary construction cost estimates for the location and geometry of the Projects.*
YES	NO	Preliminary Environmental Analysis (for fatal flaws) *The Engineer will perform Preliminary Environmental Constraint Mapping to determine if any fatal flaws exist along the proposed alignment.*
YES	NO	Project Fact Sheet with Est. Local Cost vs. Total Project Cost *The Engineer will produce a Project Fact Sheet providing summaries of all pertinent items in this scope of services (as required) and providing estimated local costs vs. total project costs for the Projects.*
YES	NO	Meetings, Coordination & Support for Project Development *The Engineer shall provide coordination services and shall assist in meetings and workshops with TxDOT, Hidalgo County, Hidalgo County Drainage District No. 1 and Hidalgo County Irrigation Districts, and all other affected parties. The Engineer shall serve as representative for the Owner in coordination items. The Engineer shall coordinate with the Owner's staff on all Project related items.*

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 3 - ROUTE AND DESIGN STUDIES

(Function Code 110)

Services Provided By: ENGINEER	CITY/COUNTY		
NO	NO	1.	Route Location Studies
N/A	N/A	2.	Level of Service Analysis
YES	NO	3.	Traffic Evaluations and Projections
YES	NO	4.	Develop Roadway Design Criteria
YES	NO	5.	Preliminary Cost Estimates
YES	NO	6.	Design Schematic (See Section 7, page 7-1 for schematic layout requirements)
YES	NO	7.	Preliminary Right-of-Way Requirements
YES	NO	8.	Design Concept Conference
		9.	Soil Core Hole Drilling
N/A	N/A		a. Pavement (See Section 7, pages 7-2 thru 7-3 for requirements)
N/A	N/A		b. Retaining Walls (See Section 10, page 10-1 for requirements)
N/A	N/A		c. Miscellaneous Structures (See Section 10, page 10-3 for requirements)
N/A	N/A		d. Bridges (See Section 11, page 11-2 thru 11-3 for requirements)

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 4 - SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT

(Function Code 120)

Services Provided By: ENGINEER	CITY/COUNTY	
		1. Environmental Reports All Environmental Reports shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations, Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
		a. Environmental Assessments
N/A	N/A	(1) An Environmental Assessment shall be prepared, anticipating a Categorical Exclusion.
YES	NO	(2) An Environmental Assessment shall be prepared in accordance with 23 USC 327 and the 2014 TxDOT-FHWA Memorandum of Understanding, anticipating a Finding of No Significant Impact.
N/A	N/A	(3) An Environmental Assessment shall be prepared, anticipating the need for a Draft Environmental Impact Statement.
		b. Environmental Impact Statement
N/A	N/A	(1) A Draft Environmental Impact Statement shall be prepared. After appropriate interagency and public reviews within time limits prescribed by the Code of Federal Regulations, Title 23, Part 771 and 43 Texas Administrative Code 2.40-2.51, a Final Environmental Impact Statement shall be prepared.
N/A	N/A	(2) A Section 4(f) Statement (Department of Transportation Act) shall be provided by the ENGINEER. The format and content of the statement is found in FHWA Technical Advisory T6640.8A.
		2. Public Involvement All public involvement procedures shall be in accordance with 43 Texas Administrative Code (TAC) 2.40-2.51, Code of Federal Regulations Title 23, Part 771 and Highway Design Operations and Procedures Manual, Part II-B.
YES	NO	a. A public involvement meeting(s) and public hearing shall be scheduled, coordinated and conducted.
YES	NO	b. Technical assistance for one public meeting and one public hearing, preparation of, and maintenance of contact lists, minutes of meeting(s), exhibit preparation, and other tasks outlined by the COUNTY, shall be provided.
NO	NO	c. A Notice of Availability (NOA) shall be published by the COUNTY upon approval of the environmental decision.
		3. Technical Reports All technical reports shall be prepared in accordance with TxDOT's environmental rules and guidelines.
YES	NO	a. Air Quality Analysis An air quality analysis shall be prepared in accordance with the STATE'S Air Quality Guidelines. The air quality analysis shall be provided as a Technical Report and a summary of the air quality results included in the administratively complete document for the project.
YES	NO	b. Biological Technical Report A biological form and technical report shall be prepared in accordance with the STATE'S Biological Guidelines. The report will include water resources, and threatened and endangered species.
		c. Cultural Resources Historical and archeological studies shall be completed in accordance with the STATE'S guidelines.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services Provided By: ENGINEER	CITY/COUNTY	
YES	NO	(1) Historic Structure Studies A records search, project coordination request, and reconnaissance survey shall be performed, and documentation prepared regarding identification efforts, National Register eligibility and potential impacts to historic properties in accordance with the state's historic structure requirements.
YES	NO	(2) Archeological Studies File searches, project coordination request, an archeological reconnaissance, and an archeological survey shall be conducted to determine if known archeological sites are present or have been designated State Archeological Landmarks; and to identify the need (if any) to perform additional archeological investigations.
YES	NO	d. Community Impact Analysis A community impact analysis shall be prepared in accordance with the STATE'S Community Impact Guidelines.
YES	NO	e. Hazardous Materials The consultant shall perform an Initial Site Assessment (ISA) for hazardous materials impact in accordance with the American Society for Testing and Materials (ASTM) 1528.93 (Transaction Screen Process) and a Hazardous Materials Technical Report, as needed.
YES	NO	f. Indirect and Cumulative Impacts Analysis An indirect and cumulative impacts analysis shall be prepared in accordance with the STATE's guidelines.
YES	NO	g. Noise Analysis A noise analysis shall be prepared, including predicted noise levels and the consideration and evaluation of noise mitigation, in accordance with the STATE'S Noise Guidelines. The noise analysis shall be provided as a Technical Report and a summary of the noise analysis results shall be included in the administratively complete document.
YES	NO	4. Environmental Scoping The ENGINEER shall initiate the environmental scoping process with TxDOT. An environmental scoping document and risk assessment will be completed in coordination with TxDOT.
YES	NO	5. General Guidelines for Preparation of Environmental Documents

a. All technical reports will be submitted electronically to TxDOT through their FTP site.
b. The draft administratively complete document will be submitted to TxDOT electronically through their FTP site.
c. The administratively complete document will be prepared in accordance with the content and format of FHWA Technical Advisory T6640.8A and the TxDOT Administrative Code 43 TAC §2.44.
d. The administratively complete document will be submitted to TxDOT electronically through their FTP site.
e. Upon completion and approval of the administratively and technically complete document, the Engineer will provide one (1) hard copy to the Client. All copies to TxDOT will be digital.
f. Exhibits in the environmental document shall be color copies and text shall be black and white.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 7 - ROADWAY DESIGN CONTROLS

(Function Code 160)

Services Provided By: ENGINEER	COUNTY	
		1. Geometric Design
YES	N/A	a. Horizontal and Vertical Alignment (Preliminary based on office surveys)
YES	N/A	b. Schematic Layout
		(1) The location of interchanges, main lanes, grade separations, frontage roads and ramps.
		(2) Develop vertical and horizontal alignment of main lanes, ramps and cross roads at proposed interchanges or grade separations. Frontage road alignment data need not be shown on the schematic; however, it should be developed in sufficient detail to determine ROW needs. The degree of horizontal curves and vertical curve data, including "K" values, shall also be shown for ease of checking.
		(3) For freeways, show the location and text of the proposed main lane guide signs. Lane lines and/or arrows indicating the number of lanes shall also be shown.
		(4) A complete explanation of the sequence and methods of stage construction, if proposed, including the initial and ultimate proposed treatment of crossovers and ramps.
		(5) The tentative ROW limits.
		(a) Provide a roadway Design System (RDS) or (GEOPAK) computer tape of the preliminary earthwork to verify ROW requirements.
		(b) Provide a graphics file containing the approved schematic.
		(6) The geometric (pavement cross slopes, lane and shoulder widths, slope rates for fills and cuts) of the typical sections of proposed highway main lanes, ramps, frontage roads, and cross roads.
		(7) The current and projected traffic volumes as provided by the TxDOT (20 year traffic projection, unless otherwise determined by the District Engineer).
		(8) The control of access lines if Interstate or designated under House Bill 179.
		(9) Direction of traffic flow on all roadways.
		(10) Location and width of median openings for highway without access control.
		(11) The geometric of speed change (acceleration, deceleration, climbing) lanes.
YES	N/A	2. General Guidelines for Project Development
		a. Prior to preparing detailed plans for a proposed project, a preliminary schematic layout shall be prepared which indicates the general geometric features and location requirements peculiar to the project. An uncontrolled aerial mosaic will be provided for this use. Four copies of the schematic layout shall be submitted through the district to the Design Division for approval and subsequent coordination with the Federal Highway Administration (FHWA) where applicable. The layout shall be submitted for two-lane arterial highway projects on new locations and for all multi-lane highway projects. **No geometric design is to be performed until the COUNTY has given the engineer written approval of the preliminary schematic layout.**
		b. All geometric design shall be in conformance with the State's Design Division, Operations and Procedures Manual, except where variances are permitted in writing by the STATE.
		c. The schematic layout shall include basic information which is necessary for the proper review and evaluation including the items listed above in the checklist for schematic layout.
		d. Handling of traffic during construction shall be a consideration in the development of preliminary designs.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services Provided By: ENGINEER	COUNTY	
YES	N/A	2. General Guidelines for Project Development *(continued)*
		e. Upon approval of the schematic layout by Design Division (FHWA on Federal-aid projects), it shall be the basis for an exhibit at any required public hearing prior to final development of the project. If there are any changes to the schematic after the Design Division and FHWA approval and before the public hearing, four copies of the revised schematic, as displayed at the hearing, shall be submitted either prior to or accompanying the public hearing data. If there are no changes in the schematic as displayed at the hearing, only photographs of the schematic and other displays shall be submitted with the public hearing data.
		f. For all freeway construction projects, these schematics shall show the location and text of the proposed main lane guide signs. A schematic layout shall be submitted through the district to the Traffic Operations Division, Traffic Safety Section for approval and subsequent coordination with the FHWA. All signing shall be in conformance with the Texas MUTCD.
		g. On complex projects, informal contact through the district with the Design Division and FHWA personnel is encouraged with regard to development of preliminary design prior to official schematic submission.
		h. The engineer shall furnish a project tape that is compatible with the STATE's computer system, a project listing, and a cross section plot showing the original design sections containing the earthwork input and original cross sections for the project. **Accuracy of the earthwork design is of utmost importance since it is the basis for contractor payments and construction staking.**
N/A	N/A	3. Exhibit for Airway/Highway Clearance Permits
		4. Grading Design
NO	N/A	a. Refine the horizontal and vertical alignment of main lanes, frontage roads, ramps, cross roads and direct connectors based upon the approved schematic layout. Determine vertical clearances at grade separations and overpasses, taking into account the appropriate super elevation rate.
NO	N/A	b. Typical Sections
NO	N/A	c. Design Cross Sections
NO	N/A	d. Determine Cut and Fill Quantities
N/A	N/A	e. Slope Stability Analysis
N/A	N/A	f. Embankment Foundation Stability Analysis
N/A	N/A	g. Embankment Settlement Analysis
		5. Pavement Design
NO	N/A	a. Prior to initiating detailed plan preparations for a project, a preliminary investigation shall be made to determine the approximate section and pavement type to be used for the pavement structure. The Flexible Pavement Design Manual for flexible pavement, "Appendix F" of the Design Division, Operations and Procedures Manual, and the current AASHTO Guide for the Design of Pavement Structures, may be used for this purpose.
NO	N/A	b. The typical section shall also reflect proposed geometric including pavement cross slopes, lane and shoulder widths, and slope rates whenever this data have not been previously shown on a schematic submission.
		c. Embankment and Subgrade
		(1) Soil Core Holes (Show cost estimate with Function Code 110)
N/A	N/A	(a) Along center line
N/A	N/A	(b) Along center line of each roadway
		The location and minimum number of soil core holes required for this project are as follows: (To be determined when schematic is being completed)

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services Provided By: ENGINEER	COUNTY	
		5. Pavement Design *(continued)*
		c. Embankment and Subgrade *(continued)*
NO	N/A	(2) Identify,interpret and summarize geologic features that affect engineering design (PI, Sulfate content, % of lime)
NO	N/A	d. Traffic Data for Pavement Design by STATE
NO	N/A	e. Basic Design Criteria
NO	N/A	f. Life Cycle Cost Analysis(es)
NO	N/A	g. Cost Data
NO	N/A	h. Pavement Material Properties
NO	N/A	i. Rehabilitation Investigations
NO	N/A	(1) Core Hole Survey (Show cost estimate with Function Code 110)
		(a) Determine type and depth of existing material, pavement, etc. The Engineer will determine whether to salvage ACP and FLEXBASE as well as their properties and provide this information to TxDOT.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 8 - DRAINAGE
(Function Code 161)

Services Provided By: ENGINEER	COUNTY	
		All hydraulic design shall be in accordance with the TxDOT's Hydraulic Manual, except where variances are permitted in writing by the COUNTY.
		1. Hydrologic Studies, Discharges
YES	NO	a. Hydrologic map showing drainage areas, contours and drainage Q's.
NO	N/A	b. Drainage area maps showing existing conditions and proposed improvements.
NO	N/A	c. Hydrologic data/discharge determination
		2. Hydraulic Drainage Study and Documentation
		a. Hydraulic computations
NO	N/A	(1) Storm water detention available within the ROW (linear ft. along side drain ditch).
NO	N/A	(2) Storm water detention required outside the ROW (as per HCDD#1)
NO	N/A	(3) Culverts
NO	N/A	(4) Bridge waterways
NO	N/A	(5) Channels
NO	N/A	(6) Storm sewers/inlets
NO	N/A	(7) Pump stations
NO	N/A	(8) Storm Water Management facilities
NO	N/A	(9) Other
		(a) Irrigation Canals/Siphons
NO	N/A	b. Hydraulic report(s)
NO	N/A	c. Federal Emergency Management Agency (FEMA) floodway requirements
NO	N/A	d. Determine impact of proposed drainage plan on the following receiving stream(s)
		(1) Hidalgo County Drainage District Outfalls
		(2) All Irrigation District Outfalls impacted
		3. Layout, Structural Design and Detailing of Drainage Features
		a. Culverts
NO	N/A	(1) New culverts
NO	N/A	(2) Culvert widening and/or lengthening
NO	N/A	(3) Culvert replacements
		b. Storm sewers
NO	N/A	(1) New storm sewers
NO	N/A	(2) Modify existing storm sewers
NO	N/A	(3) Inlets
NO	N/A	(4) Manholes
NO	N/A	(5) Trunk lines
NO	N/A	c. Pump stations
NO	N/A	d. Subsurface drainage at retaining walls
NO	N/A	e. Outfall channel(s) within the ROW
NO	N/A	f. Outfall channel(s) outside the ROW
NO	N/A	g. Detention Pond(s) within the ROW
NO	N/A	h. Detention Pond(s) outside the ROW
NO	N/A	i. Summary of Quantities
NO	N/A	j. Storm Water Management facilities
NO	N/A	4. Storm Water Pollution Prevention Plan (SW3P)
NO	N/A	5. Scour Evaluation - Waterway Structures only (to be completed by Bridge Engineer under FC 170.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ADDITIONAL RESONSIBILITIES

Easements, Letters of Permission, Etc.

The ENGINEER shall be responsible for delineating easements. The ENGINEER will be responsible for securing the necessary legal instruments.

Coordination of Utilities

The ENGINEER shall furnish the COUNTY prints of a project layout which will be distributed by ENGINEER to various utility companies to determine which utilities are in the limits of the project. These shall be preliminary layouts. Upon completion of the preliminary drainage plans and U&D sheets, the ENGINEER shall distribute to the various utility companies and request return. Upon return of these prints, the ENGINEER will schedule a meeting with the various utility companies to discuss potential conflicts and conformance with the State's Utility Accommodation Policy. The ENGINEER is responsible for coordination with the various utility companies for exposing potential conflicts and field ties to uncover utilities in potential conflict areas.

Meetings

Meetings will be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the COUNTY. The ENGINEER shall coordinate through the COUNTY for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

Specifications, Special Provisions, Special Specifications

Use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and incorporate references to approved State test procedures.

Project Manager/Engineer Communication

The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the COUNTY's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the COUNTY.

Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

Design Responsibilities

The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the COUNTY and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

The ENGINEER shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the COUNTY will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Document and Information Exchange

Data, Plan Sheets, General Notes and/or Specifications provided to the COUNTY shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in MS Office 2007 format. Plan sheets shall be provided in Microstation DGN or GEOPAK GPK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the COUNTY.

If required, the ENGINEER shall provide to the COUNTY, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the COUNTY's computer system.

CD Tape Required (YES or NO): YES

Proposal Time

The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

Office Location

The ENGINEER will perform the services to be provided under this agreement out of their office or offices listed below:

Service	Office Location
PS&E	Mission Office
Schematic	Mission Office
Environmental Document	Mercedes Office

The work effort will be managed out of the Mercedes (City)

office located at 2100 West Expressway 83 (Address),

Mercedes (City), Texas (State).

APPENDIX A - PLAN SHEET SEQUENCE PROCEDURE

1. Title Sheet
   Detailed Index of Sheets

2. Typical Sections

3. General Notes and Specifications Data

4. Estimate and Quantity Sheets

5. Storm Water Pollution Prevention Plan (SW3P) Sheets

6. Traffic Control Plans
   a. Sequence of Construction Layouts
   b. Detour Plan/Profile/Typical Sections/Quantities

7. Roadway Layouts
   a. Roadway Plan/Profile Sheets
   b. Intersection Plan/Profile Sheets
   c. Intersection Layouts
   d. Alignment Layouts/Data
   e. Ramp Layouts/Profiles
   f. Connection Roads/U-turns Layouts/Profile

8. Roadway Details
   a. Concrete Pavement Details/Standards
   b. Concrete Pavement Terminal Anchorage Details/Standards
   c. Bridge Approach Details/Standards
   d. Bridge Terminal Anchorage Details/Standards
   e. Roadway/Median Barrier Details/Standards
   f. Curb Details
   g. Driveway Details/Typical Sections/Standards

9. Signing Layouts and Marking Layouts

10. Traffic Signal Layouts

11. Lighting Layouts

12. Illumination Detail Standards (HMID, HMIF, HMIP, RID)

13. Utility Layouts/Profiles

14. Drainage Area Maps and Hydraulic Data
   a. General Drainage Area Maps
   b. Stage-Discharge Curves
   c. Main Cross-Drainage Culvert/Bridge Hydraulic Data
   d. Drainage Area Maps/Culverts/Storm Sewer
   e. Hydraulic Data/Culverts/Inlets/Storm Sewer/Pumps

15. Detailed Drainage Plans
   a. Drainage Plan/Profile Sheets (Storm Sewer Plan/Profile Sheets)
   b. Channel Plan/Profiles/Typical Sections
   c. Box Culvert Plan/Profile
   d. Pipe Sewer/Culvert Cross Sections

APPENDIX A - PLAN SHEET SEQUENCE PROCEDURE (Continued)

16. Drainage Structural Details/Standards
    a. Inlet Details/Standards
    b. Manhole Details/Standards
    c. Junction Box Details/Standards
    d. Safety End Treatment Details/Standards
    e. Box Culvert Details/Standards
    f. Culvert Wingwall Details/Standards
    g. Excavation-Backfill Diaphrams
    h. Riprap Details/Standards
    i. Temporary Pollution and Erosion Control Details

17. Pumphouse Layouts

18. Pumphouse Details

19. Pumphouse Standard Details

20. Bridge Layouts/Profile/Typical Sections*

21. Bridge Details*
    a. Summary of Bridge Quantities
    b. Abutments
    c. Interior Bents
    d. Spans
    e. Special details for the specific bridge

22. Bridge Standard Details*

23. Bridge Railing Standards

24. Retaining Wall Layouts/Profiles**

25. Retaining Wall Details**

26. Retaining Wall Standard Details**

27. Guard Fence/Standards and Signal Pole Standards

28. Signal/Electrical Details/Standards and Signal Pole Standards

29. Signing/Markers/Striping Details/Standards

30. Barricade/Construction/Beacon Standards

31. Miscellaneous Standards
    a. Chain Link Fence Standards
    b. Bridge End Detail/Standards
    c. Roadway Clearance Details/Standards
    e. Attenuator Standards

NOTE: Variations of these plan sheet sequence guidelines may be permitted if approved in writing by the County.

APPENDIX B - PLAN PREPARATION PROCEDURES

1. Title Sheet
   The ENGINEER shall be responsible for completing the title sheet as required and formatted by the STATE and as discussed in Part V of the Highway Design, Operations and Procedures Manual. Refer to Section K - Plans, 1 - Title Sheets, page 5-24, for the procedure to be used regarding all plans prepared by the ENGINEER.

2. Project Layout
   The project layout shall clearly depict the entire project as it is proposed and will usually be drawn at a scale of 1 inch=100 feet or 1 inch=200 feet, depending on the size of the project.

3. Typical Sections
   See Part IV of the Highway Design, Operations and Procedures Manual.

4. Sequence of Work Sheets (Traffic Control Plan)
   Clarity and completeness should be the rule to follow in preparing these sheets, with particular attention given to location of construction signs and barricades, lane widths, protection of drop offs, etc. For a reference guide use the Texas Department of Transportation, Texas Manual on Uniform Traffic Control Devices. Usual scale of 1 inch=100 feet and/or 1 inch=50 feet for special locations. A narrative sequence shall be included in the special provisions for the project. Staging of structural elements shall be considered. Provisions for drainage shall be considered, included and indicated during all stages of construction operations.

5. Removal Item Sheets
   These sheets indicate removal of existing facilities necessary to the proposed construction. (1 inch=40 feet) (use same scale as plan/profile sheets).

6. Summary Sheets
   Summary Sheets are required to indicate type, quantity and/or location of work for individual items of the proposed project.

7. Alignment Layout Sheets
   These sheets indicate the horizontal alignment with curve data and coordinates usually tabulated thereon. On some projects, depending on size, this information may be included on the plan profile sheets. Usual scale (1 inch=100 feet) or (1 inch=40 feet).

8. Plan Profile Sheet
   Clarity and completeness should be the rule to follow in preparation of these sheets. Usual scale (1 inch=40 feet or 1 inch=50 feet) or (1 inch=20 feet), depending on project complexity.

9. Drainage Area Maps
   Usual scale (1 inch=100 feet) and/or (1 inch=200 feet) supplemented by large scale area maps as necessary.

10. Drainage Plan Profile Sheets
    These sheets may be required on some projects to clearly depict location of inlets, storm sewer lines, and profile of storm sewer lines and laterals. Usual scale (1 inch=40 feet or 1 inch=50 feet) or (1 inch=20 feet). Storm sewer design does include redesign of storm sewers imposed by utility constraints developing after initial reviews by the STATE and consequential redesign and adjustments.

11. Runoff, Inlet, Storm Sewer and Culvert Sheets
    Use standard sheets.

APPENDIX B - PLAN PREPARATION PROCEDURES (Continued)

12. Culvert Cross Sections and Details
District standard reproducible sheets can be furnished (one each) to the ENGINEER for modification of special designs.

13. Manhole and Inlet Details
District standard reproducible sheets can be furnished (one each) to the ENGINEER.

14. Miscellaneous Detail
Curb, Sidewalk, Driveways, etc.

15. Intersection Details

16. Marking Layouts and/or Details
Layouts of the entire project with markings depicted thereon. Usual scale 1:500 (1 inch=40 feet or 1 inch=50 feet). On some projects typical details might suffice.

17. Structural Details
Bridge layout sheets shall have the same horizontal and vertical scale. Usually (1 inch = 10 feet) (1 inch = 20 feet). Sections of existing and proposed structures usually have a scale of (1 inch = 5 feet). Elements of the bridge (abutments, bents, slabs, etc.) shall be detailed to a (1/2 inch = 1 foot) or (1/4 inch equals 1 foot) architect scale to provide clear legible drawings when reduced. Letters shall be a minimum size of 4 millimeters (5/32 inch) height for hand lettering and 140 for lettering by computer-aided design and drafting (CADD).

18. Overhead Sign Bridge Layouts
A maximum of four structures may be shown on each layout sheet. The reference to the appropriate overhead sign bridge (OSB) standard and the following requirements shall be shown on the layout:
(1) Drilled shaft size and length
(2) Soil strength used for design {indicate basis and boring(s) used}
(3) Design height
(4) Tower height
(5) Leg spacings and
(6) Design wind speed.
The wind speed design map need not be included in the project plans. Designation of tower member size and anchor bolt size shall not be shown. For OSBs which require special design, the design shall be in accordance with the AASHTO sign specifications (see Item 22 of References on page 49) and to the same loading requirements as for normal standard structures. Structures (special or standard) which will have changeable message signs shall be analyzed by the ENGINEER.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

APPENDIX C - GENERAL PLAN CHECKLIST

Services Provided By: ENGINEER	COUNTY	
___	___	Title Sheet
___	___	Project Layout
___	___	Sequence of Work
___	___	Detour Layouts & Profiles
___	___	Construction Pavement Markings
___	___	Signing & Barricades
___	___	Construction Sign & Beacons
___	___	Typical Sections
___	___	Shaping & Finishing Sections
___	___	Slopes Adjacent to Shoulders
___	___	Estimate & Quantities
___	___	General Notes & Specification Data
___	___	Grading Summary
___	___	Miscellaneous Summaries (See following "SUMMARIES" heading)
___	___	Horizontal Curve Data & Alignment Layouts
___	___	Drainage Summaries
___	___	Structure Summaries
___	___	Erosion Control Summary & Details
___	___	Plan/Profile Sheets
___	___	Erosion Control Summary & Details
___	___	Pavement Contours
___	___	Superelevation Transition (If Required)
___	___	Grading Contours
___	___	Guard Fence Layouts
___	___	Storm Water Pollution Prevention Plans (SW3P)
___	___	Drainage Area Maps
___	___	Hydraulic Data
___	___	Drainage Sheets
___	___	Bridge Hydrology Sheets
___	___	Inlet & Manhole Details
___	___	Utility Support Details
___	___	Culvert Cross Sections & Details
___	___	Special Culvert Designs
___	___	Special Drainage Details
___	___	Chain Link Fence Locations
___	___	Ramp Details Sheet
___	___	Removal Item Sheet - Including detours
		(Shown in detour summary, No payment for removal; subsidiary to construction detours)
___	___	Pavement Details
___	___	Pavement Standard Modification for Concrete Shoulder
___	___	Concrete Pavement Continuously Reinforced (CPCR)
___	___	Concrete Pavement Contraction Design (CPCD)
___	___	Concrete Pavement Details - Jointed Reinforced (Steel Bars) (CPJR)
___	___	Bridge Approach Slab Details
___	___	Vehicle Attenuator Details
___	___	Miscellaneous Details
___	___	Wheelchair Ramps
___	___	Pavement Marking Details
___	___	Modified Standards
___	___	List of Standards
___	___	Permanent Signing Plans & Quantities

APPENDIX C - GENERAL PLAN CHECKLIST *(continued)*

Services Provided By: ENGINEER	COUNTY	
___	___	Permanent Lighting Plans, Quantities & Standards
___	___	Bridge Layout(s)
___	___	Bridge Details
___	___	Retaining Wall Layout(s)
___	___	Retaining Wall Details
___	___	Pumphouse Details
___	___	Underdrain Details (Retaining Walls)
___	___	Culvert Standards
___	___	Soil Profile
___	___	Temporary Traffic Signals
___	___	Design Cross Sections
___	___	Estimate
___	___	List of Standard Specification, Special Provisions & Special Specifications
___	___	Detour Special Provisions (If Required)
___	___	Construction Time Estimate
___	___	Critical Path Method (CPM)
___	___	Unit Price Documentation

Miscellaneous

___	___	Conduit Requirements
___	___	Traffic signal Requirements

Summaries **(ALL BELOW YES FOR ENGINEER AND NO FOR COUNTY UNLESS NOTED OTHERWISE)**

___	___	Salvaging and Placing Topsoil
___	___	Prepare ROW
___	___	Remove Old Structures
___	___	Scarify Existing Pavement
___	___	Remove Old Concrete Curb of Curb and Gutter (C&G)
___	___	Remove Old Concrete Pavement
___	___	Remove Old Concrete Riprap
___	___	Remove Metal Beam Guard Fence
___	___	Galvanized steel Beam Guard Fence (12Ga) (GSBGF)
___	___	Temporary Guard Fence (TEMPGF)
___	___	Summary of Concrete Flumes
___	___	Curbs
___	___	Adjust Manholes & Inlets
___	___	Underdrains
___	___	Base and Pavement
___	___	Large Structure
___	___	Concrete Riprap (RR8 & RR9)
___	___	Temporary Portable Concrete Barrier (PCBR)
___	___	Concrete Traffic Barrier
___	___	Vehicle Attenuator
___	___	Guard Rail Energy Absorbing Terminal (Great System)
___	___	Pavement Markings & Blast Cleaning (Thermoplastic)
___	___	Retaining Walls
___	___	Large Structure Summaries
___	___	Small Structure Summaries

APPENDIX C - GENERAL PLAN CHECKLIST *(continued)*

Services Provided By: ENGINEER	COUNTY	Summaries (ALL BELOW YES FOR ENGINEER AND NO FOR COUNTY UNLESS NOTED OTHERWISE)
___	___	Earthwork (Roadway & Channel) & Channel Details
___	___	Culverts
___	___	Detours
___	___	Seeding or Mulch Sod - Quantity Only
___	___	Inlet & Manholes
___	___	Sidewalks
___	___	Construction Pavement Markings
___	___	Driveways
___	___	Concrete Median
___	___	Storm Sewers
___	___	Head Walls & Safety End Treatments
___	___	Curb Openings
___	___	Manholes
___	___	Chain Link Fence, Remove & Replace Chain Link Fence
___	___	Remove & Relay Reinforced Concrete Pipe (RCP) or Pipe Sewer

Client: Hidalgo County Precinct #4

EXHIBIT C

PROJECT DEVELOPMENT SCHEDULE
FM 1925 (Monte Cristo Rd)
From Wallace Road to 10th Street
Length = 2.70 miles

TASK AND DESCRIPTION	FIRM	2016				2017				2018														2019											
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Phase I: EA, Public Involvement, Schematic																																	
Public Involvement																																	
Develop Alternatives & Matrix	L&G																																
TxDOT Authorization to Advertise for Public Meeting	TxDOT																																
Advertise & Conduct Public Meeting	L&G																																
Select TPA	L&G																																
Schematic																																	
Develop Schematic	L&G																																
Hydrologic Map	L&G																																
TxDOT Review & Revisions	TxDOT																																
TxDOT Schematic Approval	TxDOT																																
Environmental Document																																	
Draft Environmental Document, Field Visits, etc…	L&G																																
Submit Final Draft Document	L&G																																
Agency Review & Revisions	TxDOT																																
Environmental Decision	TxDOT																																

L&G FUNCTION
ENVIRONMENTAL ASSESSMENT WORK
TXDOT FUNCTION
HIDALGO COUNTY FUNCTION

REVISED EXHIBIT D-1

ESTIMATED MAN-HOUR BREAKDOWN

FM 1925 PROJECT
from WALLACE ROAD (FM 2061) TO 10TH STREET

		MANHOURS										
		Senior Project Manager	Senior Engineer	Senior Environmental Scientist /Specialist	Project Engineer	Senior Engineer Tech	Environmental Planner /Specialist (I)	CADD Operator / GIS Analyst	Admin / Clerical	TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	CONTRACT RATE	211.40	175.16	147.98	129.86	96.64	78.52	66.44	60.40			
	SUPPLEMENTAL NO. 1 TO WORK AUTHORIZATION NO. 1											
	PHASE I - EA, PUBLIC INVOLVEMENT, SCHEMATIC, HYDROLOGIC DESIGN											
1	Environmental Document with TxDOT	50		125	105			86	42.78			$ 51,000.55
2	Public Involvement with stakeholders and 1 Public Meeting	10		38	20.8			18	6.06			$ 12,000.27
3	Archeological and Historical Research (See Page 2 & 2 for Sub Cost)	34	26	18.5			30.840				$ 3,100.00	$ 16,900.95
4	Engineering Technical Support at Public Meetings with Layouts, etc.	3	4	8	4			10.72				$ 3,750.36
5	Schematic for Roadway & Outfall (2) (approx. 1.5mi.)	200	290		491	630	610	691	57.49			$ 315,000.50
6	Hydrological Map	7	8		29	19.4	30	47				$ 14,000.12
8	Office Surveys for Schematic	7	8		24	24	30	50.08				$ 14,000.00
9	Preliminary Compensable Utility Identification on Schematic	16	28		72	52	80	91.16				$ 35,000.35
10	Update Schematic based on comments as provided by TxDOT/FHWA	6	8		24	22	24	48.22				$ 13,000.62
11	Engineering Technical Support at Public Hearing with Layouts, etc.	7	9	7	17	26	23	20.8				$ 12,000.27
12	Public Involvement for 1 Public Hearing	10	5	14	24		25	24	4.38			$ 12,000.27
	SUB-TOTAL	350	386	210.5	810.8	773.4	852.84	1086.98	110.71	0	$ 3,100.00	$ 498,654.25

Sub-Total Manhours Fee with Subconsultant Fee:	$ 501,754.25
* TOTAL PROJECT FEE:	$ 501,750.00

* Rounded Figure

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2018-368941

Date Filed:
06/15/2018

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
L&G Consulting Engineers INC
Mercedes , TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Hidalgo County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
C-16-048-02-03
Supplemental No.1 to WA#1 to extend limits for the FM 1925 project to begin at Wallace Road.

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Sandoval, Armando	Mercedes , TX United States		X
Garza , Jacinto	Mercedes , TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 UNSWORN DECLARATION

My name is Jacinto Garza, and my date of birth is 10/23/61.

My address is 2100 W. Expressway 83 (street), Mercedes (city), TX (state), 78570 (zip code), Hidalgo (country).

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of TEXAS, on the 15th day of June (month), 20 18 (year).

Signature of authorized agent of contracting business entity
(Declarant)

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
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1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

L&G Consulting Engineers INC
Mercedes , TX United States

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Hidalgo County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-16-048-02-03
Supplemental No.1 to WA#1 to extend limits for the FM 1925 project to begin at Wallace Road.

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary
Sandoval, Armando	Mercedes , TX United States		X
Garza , Jacinto	Mercedes , TX United States	X	

5 Check only if there is NO Interested Party. ☐

6 UNSWORN DECLARATION

My name is _____, and my date of birth is _____.

My address is _____, _____, _____, _____, _____.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in _____County, State of _____, on the _____day of _____, 20_____.
(month) (year)

_____
Signature of authorized agent of contracting business entity
(Declarant)

SAM Search Results
List of records matching your search for :

Search Term : "l&g consulting*
Record Status: Active

ENTITY	L & G CONSULTING ENGINEERS, INC.	Status:Active
DUNS: 830780321	+4:	CAGE Code: 7SH97 DoDAAC:
Expiration Date: Jan 5, 2019	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 2100 W EXPY 83 City: Mercedes ZIP Code: 78570-9764		State/Province: TEXAS Country: UNITED STATES